CLAIMS

1.   A computer implemented method for accessing a wireless mobile device service provider server via a programming interface layer, the method comprising:

encapsulating a function call encapsulation of a function-specific parameter identified a associated with an executable programming interface layer function;

generating a programming interface function call directed to said executable programming interface layer function, wherein said programming interface function call includes said function call encapsulation of data; and

obtaining an indication of an programming interface response from said executable programming interface layer function.

2.   The method of Claim 1, further comprising directing said programming interface response to a specific wireless mobile device.

3.   A computer system comprising:

a processor; and

memory coupled to the processor having a plurality of programming instructions implementing a programming interface layer for service provider delivery of data services to client devices, the programming interface layer including solution delivery functions usable by any of a plurality of vendors to deliver solutions via the service provider, the programming interface layer including

a plurality of executable service functions;

a parameter processing module for processing function-specific parameters, including device information for the wireless mobile device, for one of said plurality of executable service functions wherein said function-specific parameters are associated with one of said executable service functions; and

a response generating module for generating a function-specific response from one of said executable service functions, wherein said function-specific response is associated with one of said executable service functions and includes said device information.

4.   The computer system of Claim 3, wherein the programming interface layer further comprises a scheduling module for scheduling tasks via said executable service functions.

5.   The computer system of Claim 3, wherein said programming interface layer defines a plurality of classes including at least a selected one of AnswersResponse, BinaryResource, BooleanResponse, ClientInfo, CodeResponse, Concepts, ConceptsResponse, ConceptValues, ConfigFile, DeckResponse, Device, Devices, Identity, ImageResource, InfoRequest, InfoRequestResponse,

PROGRAMMING INTERFACE LAYER OF A SERVICE
PROVIDER FOR DATA SERVICE DELIVERY
IPG No. AE P028
Atty. Docket No. 109927-135179

Page 209 of 211

InfoResponse, Message, MessageResponse, Resource, ResourceReference, ResourcesResponse, Response, Result, User, and UserDataResponse.

6.   The computer system of Claim 3, wherein said programming
5   interface layer defines a plurality of methods including at least a selected one of
AddMessage, Equals, AddData, GetString, GetEnumerator, CreateUser, DeleteUser,
DoesUserExist, GetSignupConcepts, GetSupportedData, GetUserData, LogOn,
ModifyUserData, SetIdentity, SetPassword, SetPrimaryUserData, AppendResource,
AppendResourceReference, DoFeatureCommand, DoSolutionCommand, GetDeck,
10 GetResources, SubmitConcepts, GetInfo, and GetInfoRequest.

7.   A programming interface layer for service provider delivery of data
services to wireless mobile devices, the programming interface layer including
solution delivery functions usable by any of a plurality of vendors to deliver
15 solutions via the service provider, the programming interface layer comprising:
        a plurality of executable service functions;
        a parameter processing module for processing function-specific parameters,
including device information for the wireless mobile device, for one of said plurality
of executable service functions wherein said function-specific parameters are
20 associated with one of said executable service functions; and
        a response generating module for generating a function-specific response
from one of said executable service functions, wherein said function-specific
response is associated with one of said executable service functions and includes
said device information.
25

8.   The programming interface layer of Claim 7, further comprising a
scheduling module for scheduling tasks via said executable service functions.

9.   The programming interface layer of Claim 7, further defining a
30 plurality of classes including at least a selected one of AnswersResponse,
BinaryResource, BooleanResponse, ClientInfo, CodeResponse, Concepts,
ConceptsResponse, ConceptValues, ConfigFile, DeckResponse, Device, Devices,
Identity, ImageResource, InfoRequest, InfoRequestResponse, InfoResponse,
Message, MessageResponse, Resource, ResourceReference, ResourcesResponse,
35 Response, Result, User, and UserDataResponse.

10.   The programming interface layer of Claim 7, further defining a
plurality of methods including at least a selected one of AddMessage, Equals,
AddData, GetString, GetEnumerator, CreateUser, DeleteUser, DoesUserExist,
40 GetSignupConcepts, GetSupportedData, GetUserData, LogOn, ModifyUserData,
SetIdentity, SetPassword, SetPrimaryUserData, AppendResource,
AppendResourceReference, DoFeatureCommand, DoSolutionCommand, GetDeck,
GetResources, SubmitConcepts, GetInfo, and GetInfoRequest.

11.   A computer readable medium containing computer executable instructions for a programming interface layer for service provider delivery of data services to client devices, the programming interface layer including solution delivery functions usable by any of a plurality of vendors to deliver solutions via the

5   service provider, the programming interface layer including
a plurality of executable service functions;
a parameter processing module for processing function-specific parameters, including device information for the wireless mobile device, for one of said plurality of executable service functions wherein said function-specific parameters are

10   associated with one of said executable service functions; and
a response generating module for generating a function-specific response from one of said executable service functions, wherein said function-specific response is associated with one of said executable service functions and includes said device information.

15

12.   The computer readable medium of Claim 11, wherein the programming interface layer further comprises a scheduling module for scheduling tasks via said executable service functions.

20   13.   The computer readable medium of Claim 11, wherein said programming interface layer defines a plurality of classes including at least a selected one of AnswersResponse, BinaryResource, BooleanResponse, ClientInfo, CodeResponse, Concepts, ConceptsResponse, ConceptValues, ConfigFile, DeckResponse, Device, Devices, Identity, ImageResource, InfoRequest,

25   InfoRequestResponse, InfoResponse, Message, MessageResponse, Resource, ResourceReference, ResourcesResponse, Response, Result, User, and UserDataResponse.

14.   The computer readable medium of Claim 11, wherein said

30   programming interface layer defines a plurality of methods including at least a selected one of AddMessage, Equals, AddData, GetString, GetEnumerator, CreateUser, DeleteUser, DoesUserExist, GetSignupConcepts, GetSupportedData, GetUserData, LogOn, ModifyUserData, SetIdentity, SetPassword, SetPrimaryUserData, AppendResource, AppendResourceReference,

35   DoFeatureCommand, DoSolutionCommand, GetDeck, GetResources, SubmitConcepts, GetInfo, and GetInfoRequest.